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Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 11

Complete If Known	
Application Number	10/586,072
Filing Date	
First Named Inventor	BROUGH, Douglas E.
Group Art Unit	1632
Examiner Name	/Wu-Cheng Winston Shen/
Attorney Docket Number	253625

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No.	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Document Number	Kind Code			
/W.S./	AA	US- 4,797,368		01-10-1989	Carter et al.	
/W.S./	AB	US- 5,543,328		08-06-1996	McClelland et al.	
/W.S./	AC	US- 5,559,099		09-24-1996	Wickham et al.	
/W.S./	AD	US- 5,712,136		01-27-1998	Wickham et al.	
/W.S./	AE	US- 5,731,190		03-24-1998	Wickham et al.	
/W.S./	AF	US- 5,756,086		05-26-1998	McClelland et al.	
/W.S./	AG	US- 5,770,442		06-23-1998	Wickham et al.	
/W.S./	AH	US- 5,801,030		09-01-1998	McVey et al.	
/W.S./	AI	US- 5,804,413		09-08-1998	DeLuca	
/W.S./	AJ	US- 5,837,511		11-17-1998	Falck-Pedersen et al.	
/W.S./	AK	US- 5,837,532		11-17-1998	Preston et al.	
/W.S./	AL	US- 5,840,686		11-24-1998	Chader et al.	
/W.S./	AM	US- 5,846,782		12-08-1998	Wickham et al.	
/W.S./	AN	US- 5,849,561		12-15-1998	Falck-Pedersen	
/W.S./	AO	US- 5,849,572		12-15-1998	Glorioso et al.	
/W.S./	AP	US- 5,851,806		12-22-1998	Kovesdi et al.	
/W.S./	AQ	US- 5,871,727		02-16-1999	Curiel	
/W.S./	AR	US- 5,885,808		03-23-1999	Spooner et al.	
/W.S./	AS	US- 5,922,315		07-13-1999	Roy	

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/W.S./	AT	US- 5,962,311		10-05-1999	Wickham et al.	
/W.S./	AU	US- 5,965,358		10-12-1999	Carrión et al.	
/W.S./	AV	US- 5,965,541		10-12-1999	Wickham et al.	
/W.S./	AW	US- 5,994,106		11-30-1999	Kovesdi et al.	
/W.S./	AX	US- 5,994,128		11-30-1999	Fallaux et al.	
/W.S./	AY	US- 6,033,908		03-07-2000	Bout et al.	
/W.S./	AZ	US- 6,057,155		05-02-2000	Wickham et al.	
/W.S./	BA	US- 6,063,627		05-16-2000	McVey et al.	
/W.S./	BB	US- 6,127,525		10-03-2000	Crystal et al.	
/W.S./	BC	US- 6,153,435		11-28-2000	Crystal et al.	
/W.S./	BD	US- 6,165,754		12-26-2000	Crystal et al.	
/W.S./	BE	US- 6,168,941		01-02-2001	Liu et al.	
/W.S./	BF	US- 6,225,113		05-01-2001	Brough et al.	
/W.S./	BG	US- 6,228,646		05-08-2001	Hardy	
/W.S./	BH	US- 6,329,190		12-11-2001	Wickham et al.	
/W.S./	BI	US- 6,329,200		12-11-2001	McVey et al.	
/W.S./	BJ	US- 6,383,795		05-07-2002	Carrión et al.	
/W.S./	BK	US- 6,440,728		08-27-2002	McVey et al.	
/W.S./	BL	US- 6,447,995		09-10-2002	Carrión et al.	
/W.S./	BM	US- 6,455,314		09-24-2002	Wickham et al.	

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/W.S./	BN	US- 6,465,253		10-15-2002	Wickham et al.	
/W.S./	BO	US- 6,475,757		11-05-2002	McVey et al.	
/W.S./	BP	US- 6,482,616		11-19-2002	Kovesdi et al.	
/W.S./	BQ	US- 6,576,456		06-10-2003	Wickham et al.	
/W.S./	BR	US- 6,649,373		11-18-2003	Brough et al.	
/W.S./	BS	US- 6,660,521		12-09-2003	Brough et al.	
/W.S./	BT	US- 2001/0043922	A1	11-22-2001	Kovesdi et al.	
/W.S./	BU	US- 2001/0047081	A1	11-29-2001	Roelvink et al.	
/W.S./	BV	US- 2002/0004040	A1	01-10-2002	Kovesdi et al.	
/W.S./	BW	US- 2002/0031831	A1	03-14-2002	Kovesdi et al.	
/W.S./	BX	US- 2002/0034735	A1	03-21-2002	Carrión et al.	
/W.S./	BY	US- 2002/0099024	A1	07-25-2002	Wickham et al.	
/W.S./	BZ	US- 2002/0110545	A1	08-15-2002	Kovesdi et al.	
/W.S./	CA	US- 2002/0151027	A1	10-17-2002	Wickham et al.	
/W.S./	CB	US- 2003/0099619	A1	05-29-2003	Wickham et al.	

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		Office	Number	Kind Code				
/W.S./	CC	WO	91/02788	A	03-07-1991	University of Glasgow		
/W.S./	CD	WO	93/24529	A	12-09-1993	Univ. Southern California		

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		Office	Number	Kind Code				Yes	No
/W.S./	CE	WO	95/34671	A	12-21-1995	GenVec, Inc.			
/W.S./	CF	WO	96/04394	A	02-15-1996	Medical Research Council			
/W.S./	CG	WO	96/07734	A	03-14-1996	GenVec, Inc.			
/W.S./	CH	WO	96/26281	A	08-29-1996	GenVec, Inc.			
/W.S./	CI	WO	97/00326	A	01-03-1997	Introgen BV et al.			
/W.S./	CJ	WO	97/09439	A	03-13-1997	GenVec, Inc.			
/W.S./	CK	WO	97/12986	A	04-10-1997	Cornell Res. Foundation			
/W.S./	CL	WO	97/20051	A	06-06-1997	GenVec, Inc.			
/W.S./	CM	WO	97/21826	A	06-19-1997	GenVec, Inc.			
/W.S./	CN	WO	97/30722	A	08-28-1997	Amgen, Inc.			
/W.S./	CO	WO	98/07865	A	02-26-1998	GenVec, Inc.			
/W.S./	CP	WO	98/07877	A	02-26-1998	GenVec, Inc.			
/W.S./	CQ	WO	98/15637	A	04-16-1998	University of Pittsburgh			
/W.S./	CR	WO	98/40509	A	09-17-1998	Cornell Res. Foundation			
/W.S./	CS	WO	98/53087	A	11-26-1998	Cornell Res. Foundation			
/W.S./	CT	WO	98/54346	A	12-03-1998	GenVec, Inc.			
/W.S./	CU	WO	98/56937	A	12-17-1998	GenVec, Inc.			
/W.S./	CV	WO	99/04806	A	02-04-1999	Northwestern University			
/W.S./	CW	WO	99/06583	A	02-11-1999	University of Pittsburgh			
/W.S./	CX	WO	99/15686	A	04-01-1999	GenVec, Inc.			

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PTO/SB/08A/B (08-03)

Approved for use through 07/31/2006. OMB 0851-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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		Office	Number	Kind Code				Yes	No
/W.S./	CY	WO	99/54441	A	10-28-1999	GenVec, Inc.			
/W.S./	CZ	WO	00/00628	A	01-06-2000	GenVec, Inc.			
/W.S./	DA	WO	00/12765	A	03-09-2000	GenVec, Inc.			
/W.S./	DB	WO	00/15823	A	03-23-2000	GenVec, Inc.			
/W.S./	DC	WO	00/34496	A	06-15-2000	GenVec, Inc.			
/W.S./	DD	WO	00/73764	A	12-07-2000	Baylor Coll. of Medicine			
/W.S./	DE	WO	01/58494	A	08-16-2001	GenVec, Inc. et al.			
/W.S./	DF	WO	01/58940	A	08-16-2001	GenVec, Inc.			
/W.S./	DG	WO	01/77304	A	10-18-2001	GenVec, Inc.			
/W.S./	DH	WO	01/92549	A	12-06-2001	GenVec, Inc.			
/W.S./	DI	WO	02/29388	A	04-11-2002	GenVec, Inc.			

OTHER - NON PATENT LITERATURE DOCUMENTS			
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			Yes No
/W.S./	DJ	AVRAHAM et al., "Prospects for gene therapy in hearing loss," <i>J. Basic Clin. Physiol. Pharmacol. (Israel)</i> , 14 (2): 77-83 (2003).	X X
/W.S./	DK	BAYLOR COLLEGE OF MEDICINE, "MATH1 signal heralds process of differentiation in intestinal lining," <i>Biocompare News</i> , December 6, 2001. (Retrieved from the internet on December 10, 2001.)	X X

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					Yes No
/W.S./	DL	BEN-ARIE et al., "Abnormal cerebellar development in mice lacking the murine homolog of the <i>Drosophila</i> proneural gene <i>ataonal</i> ," <i>Am. J. Hum. Genet.</i> , 59 (4 Suppl.): A46 (Abstract #232) (1996).			
/W.S./	DM	BEN-ARIE et al., "Evolutionary conservation of sequence and expression of the bHLH protein Atonal suggests a conserved role in neurogenesis," <i>Hum. Mol. Genet.</i> , 5 (9): 1207-1216 (1996).			
/W.S./	DN	BEN-ARIE et al., " <i>Math 1</i> is essential for genesis of cerebellar granule neurons," <i>Nature</i> , 390: 169-172 (November 13, 1997).			
/W.S./	DO	BERMINGHAM et al., " <i>Math1</i> : An essential gene for the generation of inner ear hair cells," <i>Science</i> , 284: 1837-1841 (June 11, 1999).			
/W.S./	DP	BERMINGHAM-McDONOGH, "Hair cell regeneration: winging our way towards a sound future," <i>Curr. Opin. Neurobiol.</i> , 13: 119-126 (2003).			
/W.S./	DQ	BROUGH et al., "Activation of transgene expression by early region 4 is responsible for a high level of persistent transgene expression from adenovirus vectors <i>in vivo</i> ," <i>J. Virol.</i> , 71 (12): 9206-9213 (December 1997).			
/W.S./	DR	CAREY et al., "Hair cell regeneration and recovery of the vestibuloocular reflex in the avian vestibular system," <i>J. Neurophysiol.</i> , 76 (5): 3301-3312 (November 1996).			
/W.S./	DS	CHADER, "Multipotential differentiation of human Y-79 retinoblastoma cells in attachment culture," <i>Cell Different.</i> , 20 (2-3): 209-216 (1987).			
/W.S./	DT	CHEN et al., "The role of <i>Math1</i> in inner ear development: Uncoupling the establishment of the sensory primordium from hair cell fate determination," <i>Development</i> , 129 (10): 2495-2505 (2002).			

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					Yes No
/W.S./	DU	CHIEN et al., "Neuronal type information encoded in the basic-helix-loop-helix domain of proneural genes," <i>Proc. Natl. Acad. Sci. USA</i> , 93: 13239-13244 (November 1996).			
/W.S./	DV	CRAWFORD-MIKSZA et al., "Analysis of 15 Adenovirus hexon proteins reveals the location and structure of seven hypervariable regions containing serotype-specific residues," <i>J. Virol.</i> , 70 (3): 1836-1844 (1996).			
/W.S./	DW	CREA et al., "Chemical synthesis of genes for human insulin," <i>Proc. Natl. Acad. Sci. USA</i> , 75 (12): 5765-5769 (December 1978).			
/W.S./	DX	DOOLING, "Recovery of hearing and vocal behavior after hair-cell regeneration," <i>Proc. Natl. Acad. Sci. USA</i> , 94: 14206-14210 (December 1997).			
/W.S./	DY	EINFELD et al., "Reducing the native tropism of adenovirus vectors requires removal of both CAR and integrin interactions," <i>J. Virol.</i> , 75 (23): 11284-11291 (December 2001)			
/W.S./	DZ	GRAHAM et al., "Characteristics of a human cell line transformed by DNA from human adenovirus type 5," <i>J. Gen. Virol.</i> , 36: 59-72 (1977).			
/W.S./	EA	GUO et al., "The nuclear matrix protein NMP-1 is the transcription factor YY1," <i>Proc. Natl. Acad. Sci. USA</i> , 92: 10526-10530 (1995).			
/W.S./	EB	HASSON et al. "Expression in cochlea and retina of myosin VITa, the gene product defective in Usher syndrome type 1B," <i>Proc. Natl. Acad. Sci. USA</i> , 92: 9815-9819 (October 1995).			
/W.S./	EC	HAWKINS, "Comparative otopathology: aging, noise, and ototoxic drugs," <i>Adv. Otorhinolaryngol.</i> , 20: 125-141 (1973)			
/W.S./	ED	ITAKURA et al., "Expression in <i>Escherichia coli</i> of a chemically synthesized gene for the hormone somatostatin," <i>Science</i> , 198, (4321): 1056-1063 (1977).			

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			Yes	No	
/W.S./	EE	JARMAN et al., "Atonal is a proneural gene that directs chordotonal organ formation in the drosophila peripheral nervous system," <i>Cell</i> , 73: 1307-1321 (July 2, 1993).			
/W.S./	EF	JERO et al., "Cochlear gene delivery through an intact round window membrane in mouse," <i>Hum. Gene Ther.</i> , 12: 539-548 (March 20, 2001).			
/W.S./	EG	KANZAKI et al., "From gene identification to gene therapy," <i>Audiol. Neurotol.</i> , 7 (3): 161-164 (2002).			
/W.S./	EH	KAWAMOTO et al., "Math1 gene transfer generates new cochlear hair cells in mature guinea pigs <i>in vivo</i> ," <i>J. Neurosci.</i> , 23 (11): 4395-4400 (June 1, 2003).			
/W.S./	EI	KAWAMOTO et al., "The functional and structural outcome of inner ear gene transfer via the vestibular and cochlear fluids in mice," <i>Mol. Ther.</i> , 4 (6): 575-585 (2001).			
/W.S./	EJ	LAUGHLIN et al., "Closing of infectious adeno-associated virus genomes in bacterial plasmids," <i>Gene</i> , 23: 65-73 (1983).			
/W.S./	EK	LUEBKE et al., "A modified adenovirus can transfect cochlear hair cells <i>in vivo</i> without compromising cochlear function," <i>Gene Ther.</i> , 8: 789-794 (2001).			
/W.S./	EL	LUEBKE et al., "Cochlear function and transgene expression in the guinea pig cochlea, using adenovirus- and adeno-associated virus-directed gene transfer," <i>Hum. Gene Ther.</i> , 12: 773-781 (May 1, 2001).			
/W.S./	EM	MARINOVIC et al., "Ubiquitin (<i>UbC</i>) expression in muscle cells is increased by glucocorticoids through a mechanism involving Sp1 and MEK1*," <i>J. Biol. Chem.</i> , 277 (19): 16673-16681 (May 10, 2002).			
/W.S./	EN	MILLAR et al., "Molecular mechanisms regulating hair follicle development," <i>J. Invest. Dermatol.</i> , 118: 216-225 (2002).			

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Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/586,072
				Filing Date	
				First Named Inventor	BROUGH, Douglas E.
				Group Art Unit	1632
				Examiner Name	/Wu-Cheng Winston Shen/
Sheet	9	of	11	Attorney Docket Number	253625

OTHER - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials ¹	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation Provided**		
			Yes	No	
/W.S./	EO	MONTCOUQUIOL et al., "Intracellular signals that control cell proliferation in mammalian balance epithelia: Key roles for phosphatidylinositol-3 kinase, mammalian target of rapamycin, and S6 kinases in preference to calcium, protein kinase C, and mitogen-activated protein kinase," <i>J. Neurosci.</i> , 21 (2): 570-580 (January 15, 2001).			
/W.S./	EP	MORI et al., "Pigment epithelium-derived factor inhibits retinal and choroidal neovascularization," <i>J. Cell. Physiol.</i> , 188: 253-263 (2001).			
/W.S./	EQ	PIGNOLO et al., "Senescent WI-38 cells fail to express EPC-1, a gene induced in young cells upon entry into the G0 state," <i>J. Biol. Chem.</i> , 268 (12): 8949-8957 (April 25, 1993).			
/W.S./	ER	SABATÉ et al., "Adenovirus for neurodegenerative diseases: in vivo strategies and ex vivo gene therapy using human neural progenitors," <i>Clin. Neurosci.</i> , 3: 317-321 (1996).			
/W.S./	ES	SCHWARZE et al., "In vivo protein transduction: delivery of a biologically active protein in the mouse," <i>Science</i> , 285: 1569-1572 (September 3, 1999).			
/W.S./	ET	SHOU et al., "Robust generation of new hair cells in the mature mammalian inner ear by adenoviral expression of <i>Hath1</i> ," <i>Mol. Cell. Neurosci.</i> , 23 (2): 169-179 (June 2003).			
/W.S./	EU	STAECCKER et al., "Brain-derived neurotrophic factor gene therapy prevents spiral ganglion degeneration after hair cell loss," <i>Otolaryngol. Head Neck Surg.</i> , 119: 7-13 (1998).			
/W.S./	EV	STAECCKER et al., "Gene expression in the mammalian cochlea: a study of multiple vector systems," <i>Acta Otolaryngol.</i> , 121: 157-163 (2001).			
/W.S./	EW	STÖVER ET AL., "Cochlear gene transfer: round window versus cochleostomy inoculation," <i>Hearing Res.</i> , 136: 124-130 (1999).			

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

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				Application Number	10/586,072
				Filing Date	
				First Named Inventor	BROUGH, Douglas E.
				Group Art Unit	1632
				Examiner Name	/Wu-Cheng Winston Shen/
Sheet	10	of	11	Attorney Docket Number	253625

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					Yes No
/W.S./	EX	SUN et al., "Transcriptional regulation of atonal during development in the <i>Drosophila</i> peripheral nervous system," <i>Development</i> , 125: 3731-3740 (1998).			
/W.S./	EY	SUZUKI et al., "Effect of transgenic GDNF expression of gentamicin-induced cochlear and vestibular toxicity," <i>Gene Ther.</i> , 7 (12): 1046-1054 (June 2000).			
/W.S./	EZ	TONG et al., "Genomic organization of the JEM-1 (BLZF1) gene on human chromosome 1q24: molecular cloning and analysis of its promoter region," <i>Genomics</i> , 69 (3): 380-390 (November 2000).			
/W.S./	FA	TONG et al., "Expression patterns of the <i>JEM-1</i> gene in normal and tumor cells: ubiquity contrasting with a faint, but retinoid-induced, mRNA expression in promyelocytic NB4 cells," <i>Leukemia</i> , 12 (11): 1733-1740 (1998).			
/W.S./	FB	VAN BEUSECHEM et al., "Efficient and selective gene transfer into primary human brain tumors by using single-chain antibody-targeted adenoviral vectors with native tropism abolished," <i>J. Virol.</i> , 76 (6): 2753-2762 (March 2002).			
/W.S./	FC	WAGNER et al., "Nucleotide sequence of the thymidine kinase gene of herpes simplex virus type I," <i>Proc. Natl. Acad. Sci. USA</i> , 78: 144-145 (1981)			
/W.S./	FD	WANG et al., "Second generation adenovirus vectors," <i>Nature Med.</i> , 2 (6): 714-716 (1996).			
/W.S./	FE	WILLIAMS et al., "Structure/function analysis on interleukin-2-toxin (DAB ₄₈₆ -IL-2)," <i>J. Biol. Chem.</i> , 265 (20): 11885-11887 (July 15, 1990).			
/W.S./	FF	ZHENG et al., "Overexpression of <i>Math1</i> induces robust production of extra hair cells in postnatal rat inner ears," <i>Nature Neurosci.</i> , 3 (6): 580-586 (June 2000).			
/W.S./	FG	ZINE et al., " <i>Hes1</i> and <i>Hes5</i> activities are required for the normal development of the hair cells in the mammalian inner ear," <i>J. Neurosci.</i> , 21 (13): 4712-4720 (July 1, 2001).			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 11 of 11

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/586,072
(Use as many sheets as necessary)				Filing Date	
				First Named Inventor	BROUGH, Douglas E.
				Group Art Unit	1632
				Examiner Name	Wu-Cheng Winston Shen/
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